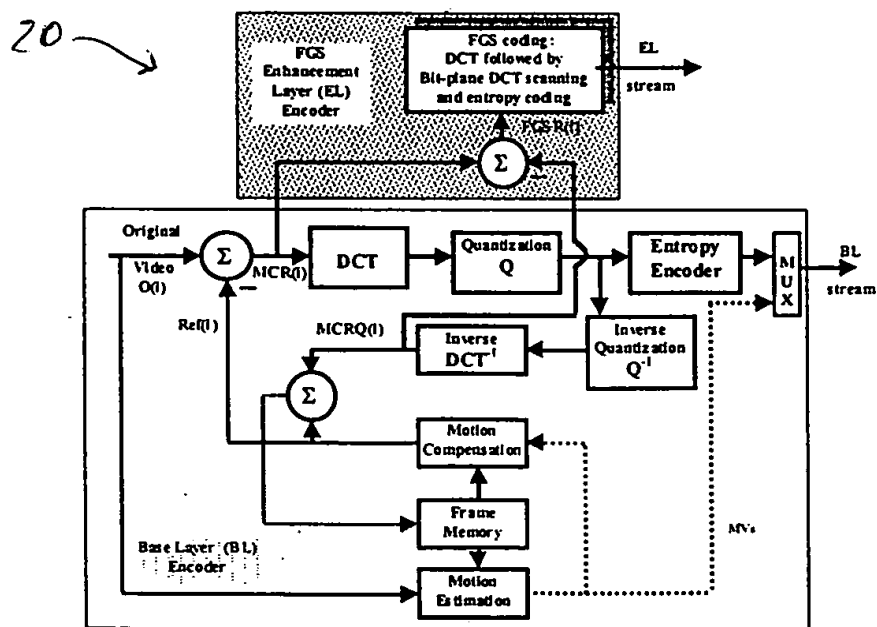
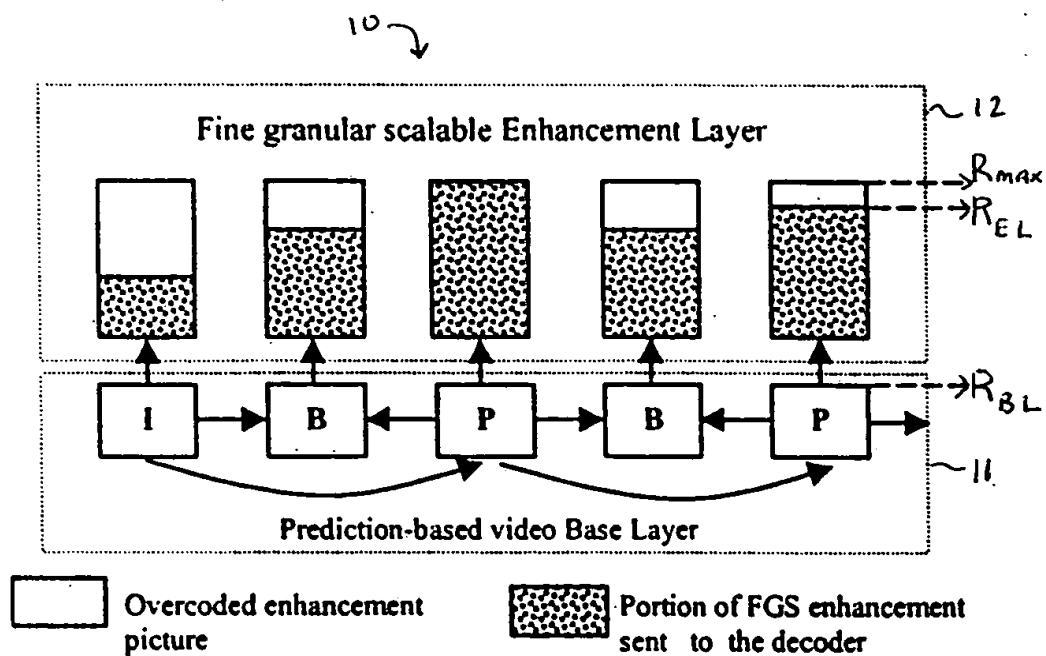


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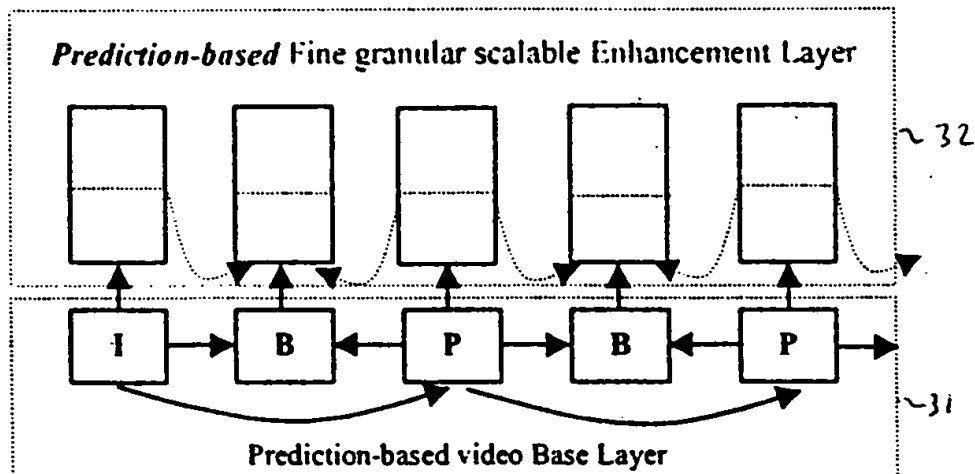


Fig. 3A

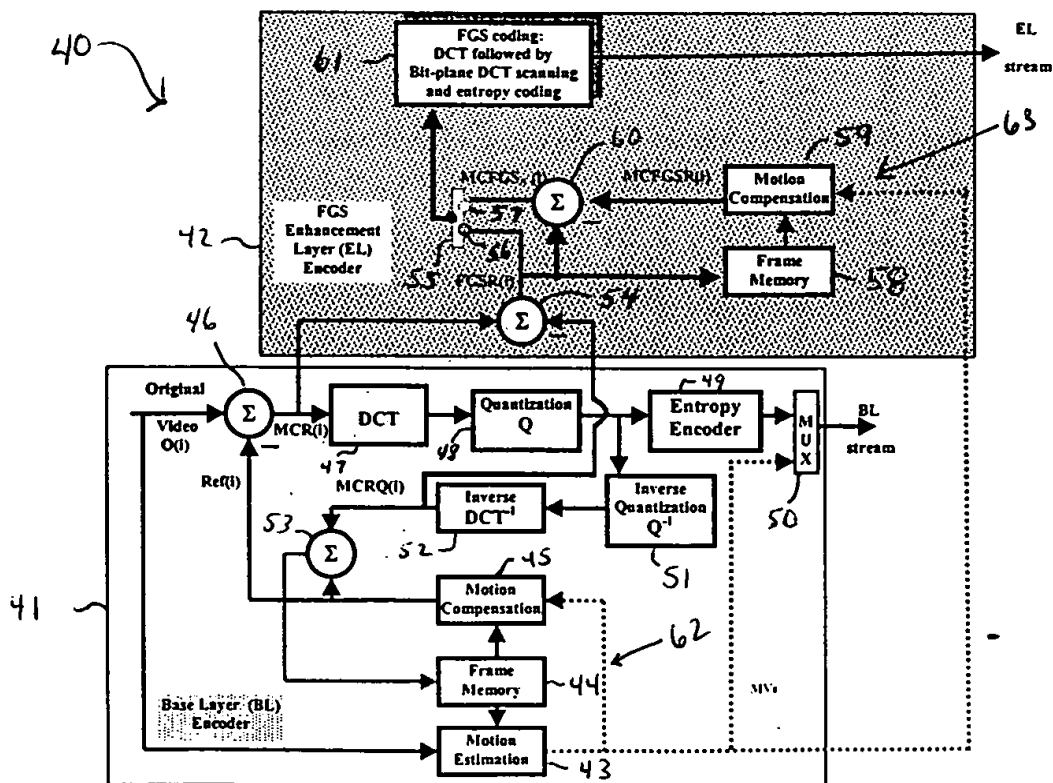


Fig. 4

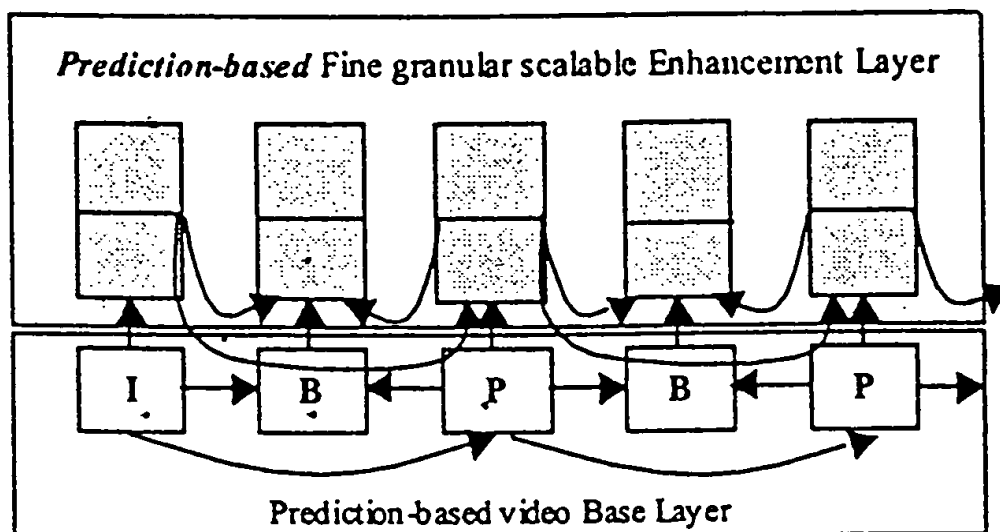


Fig. 3B

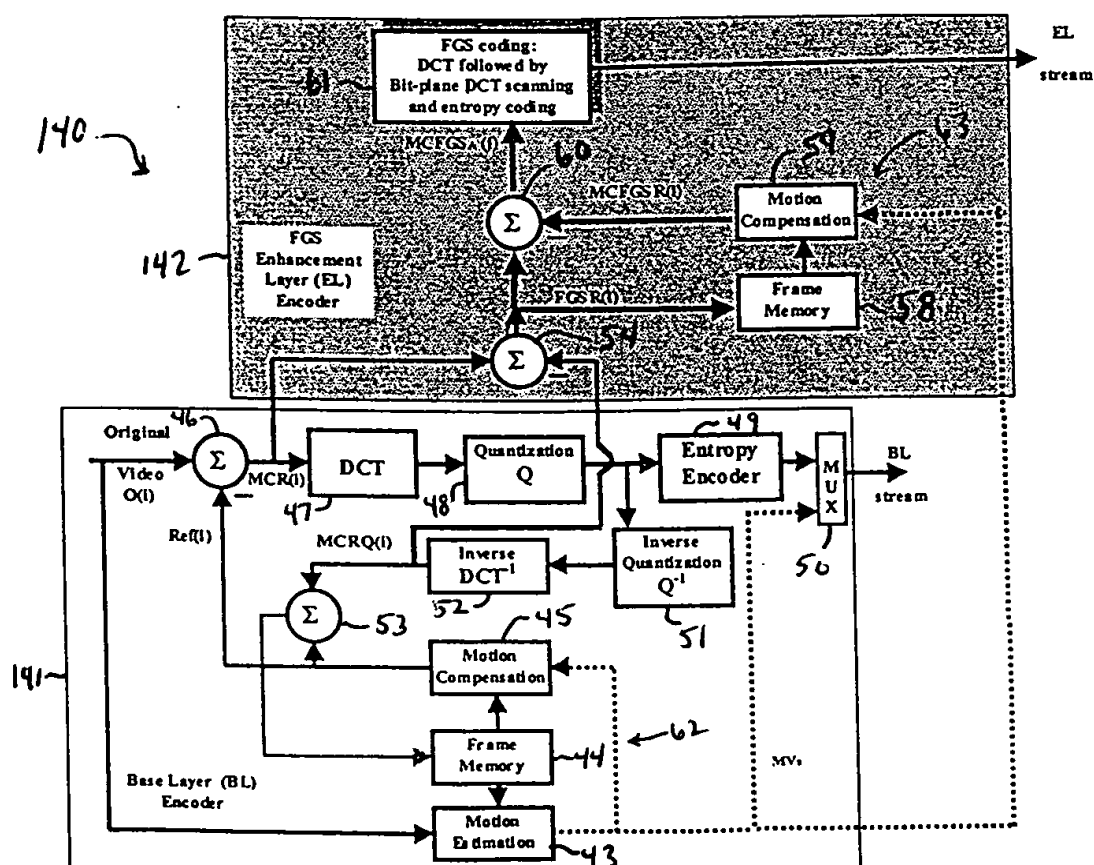


Fig. 5

The diagram illustrates a video decoder architecture with two main processing paths: an enhancement layer (70) and a base layer (71).

Enhancement Layer Decoder (70):

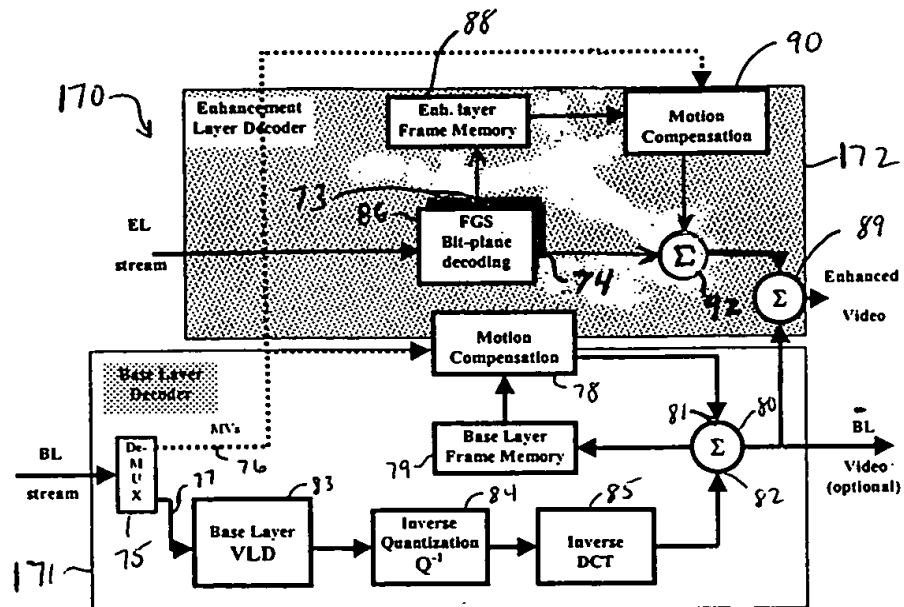
- Inputs: **EL stream** (73), **Enhanced Video** (89), and a feedback signal (90).
- Components:
 - Enh. layer Frame Memory** (88): Receives **Enhanced Video** (89) and provides input to **Motion Compensation** (72).
 - Motion Compensation** (72): Receives input from the enhancement layer frame memory and the base layer motion compensation (78). Its output is summed (Σ) with the **EL stream** (73) at point 87 to produce **Enhanced Video** (89).
 - FGS Bit-plane decoding** (86): Receives the **EL stream** (73) and outputs a signal (74) to the **Motion Compensation** (72).
 - Summation (Σ)** (92): Combines the output of the enhancement layer motion compensation (72) with a feedback signal (90) to produce the **Enhanced Video** (89).

Base Layer Decoder (71):

- Inputs: **BL stream** (75), **Enhanced Video** (89), and a feedback signal (90).
- Components:
 - D-MUX** (76): Receives the **BL stream** (75) and outputs a signal (77) to the **Base Layer VLD** (83).
 - Base Layer VLD** (83): Receives the signal (77) and outputs a signal (79) to the **Inverse Quantization** (84).
 - Inverse Quantization** (84): Receives the signal (79) and outputs a signal (85) to the **Inverse DCT** (85).
 - Inverse DCT** (85): Receives the signal (85) and outputs a signal (82) to the **Summation (Σ)** (80).
 - Base Layer Frame Memory** (79): Receives the **Enhanced Video** (89) and provides input to the **Motion Compensation** (78).
 - Motion Compensation** (78): Receives input from the base layer frame memory and the enhancement layer motion compensation (72). Its output is summed (Σ) with the output of the **Inverse DCT** (85) at point 81 to produce the **BL Video (optional)** (80).
 - Summation (Σ)** (80): Combines the output of the base layer motion compensation (78) with the output of the **Inverse DCT** (85) to produce the **BL Video (optional)** (80).

Feedback and Control:

- The **Enhanced Video** (89) is fed back to the **Enh. layer Frame Memory** (88) and the **Base Layer Frame Memory** (79).
- The **BL Video (optional)** (80) is fed back to the **Base Layer Frame Memory** (79) and the **Summation (Σ)** (92) in the enhancement layer.



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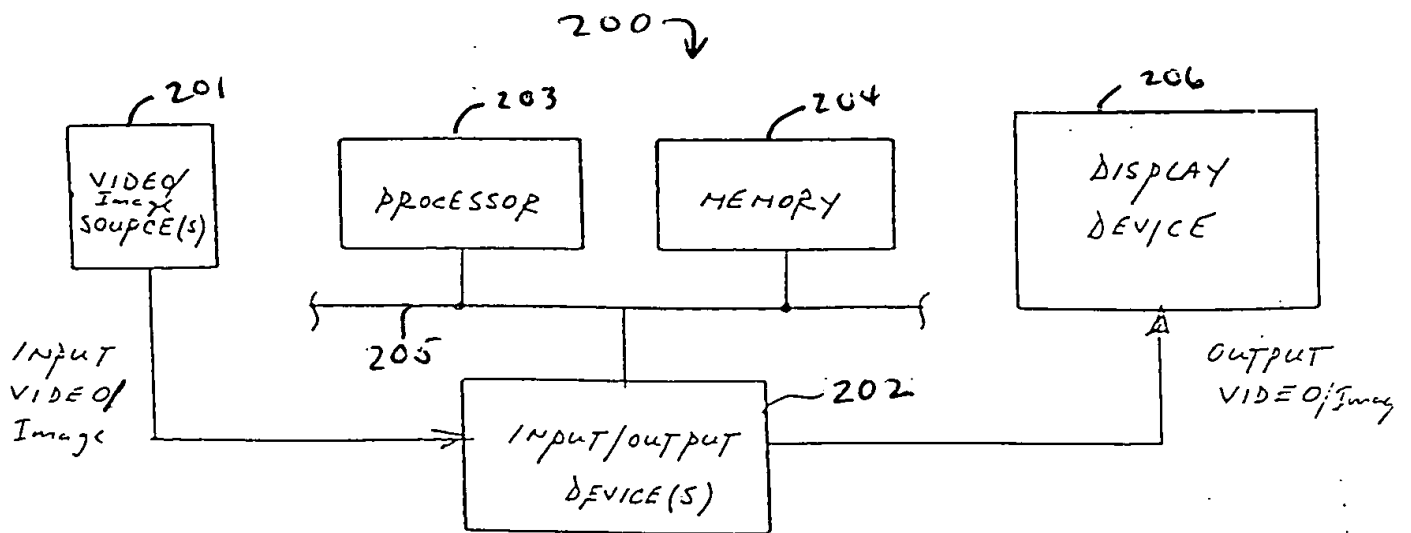


Fig. 8